INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051954

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VANDENDORPE L: "Multitone spread spectrum multiple access communications system in a multipath Rician fading channel" IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 44, no. 2, May 1995 (1995-05), pages 327-337, XP002086456 ISSN: 0018-9545 "A. Transmitted Signal" on page 328; figures 1,2 "D. Parameters" on page 329	1-14
X	EP 1 045 531 A (BRITISH BROADCASTING CORPORATION) 18 October 2000 (2000-10-18) paragraph '0012! paragraphs '0022!, '0023!	1-14

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
31 January 2005	04/02/2005

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Horbach, C

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PCT/IB2004/051954

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ANUJ BUTRA ET AL: "Multi-band OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a" PROJECT: IEEE P802.15 WORKING GROUP FOR WIRELESS PERSONAL AREA NETWORKS (WPANS), XX, XX, 15 September 2003 (2003-09-15), pages 1-69, XP002306910 "1.1.1.1 Mathematical description of the signal" on pages 6,7 "1.3.13 Time-domain Spreading" on page 33 "1.4.1 Operating band frequencies" on pages 34-35; figures 14,15	1-14
E	US 2004/228269 A1 (BALAKRISHNAN JAIGANESH ET AL) 18 November 2004 (2004-11-18) paragraph '0063! paragraph '0066!; figure 11 paragraph '0068!; figure 12	1,6

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Information on patent family members

International Application No
PCT/IB2004/051954

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1045531 A	18-10-2000	EP 1045531 A2	18-10-2000
		EP 1045543 A2	18-10-2000
		US 6792258 B1	14-09-2004
US 2004228269 A1	18-11-2004	WO 2004112289 A2	23-12-2004

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